



01-13-05

cefc

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Patent No.: U.S. 6,710,264 B2  
Issued Date: March 23, 2004  
Application No.: 09/994,004  
Filing Date: November 16, 2001  
Applicant: Jeffrey L. Deeney et al.  
Group Art Unit: 2827  
Examiner: Jeremy C. Norris  
Title: METHOD AND APPARATUS FOR SUPPORTING A  
CIRCUIT COMPONENT HAVING SOLDER COLUMN  
INTERCONNECTS USING EXTERNAL SUPPORT

**Certificate  
JAN 21 2005  
of Correction**

Attorney Docket: 10015590-1

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

**REQUEST FOR ISSUANCE OF CORRECTED PATENT OR, ALTERNATIVELY,  
CERTIFICATE OF CORRECTION (Patent Office's Mistake)**

Sir:

Pursuant to 37 C.F.R. 1.322(b), applicants respectfully request that the Patent Office issue a corrected patent with the formal as opposed to informal drawings. Alternatively, pursuant to 37 C.F.R. 1.322(a), applicants respectfully request that the Patent Office issue the enclosed Certificate of Correction.

U.S. 6,710,264 B2 was issued with informal drawings although formal drawings had been filed. More specifically, when applicants filed the application that matured into U.S. 6,710,264 B2, informal drawings were attached as part of the application. As the formal drawings had been received after the inventors had executed the Declaration and Power of Attorney, applicants submitted the formal

**21 JAN 2005**

drawings as a separate attachment when they filed the application. A copy of the Patent Application Transmittal Letter filed with the application on November 16, 2001 is attached as Exhibit A. This Transmittal Letter references an "Att. Xmit Form" as being submitted with the application. This Transmittal Form, dated November 16, 2001, indicates that "2 sheets of Formal Drawings showing Figures 1-8 (completed after execution of the Declaration and Power of Attorney)" are submitted. A copy of this Transmittal Form and the Formal Drawings are attached as Exhibit B. A copy of the return postcard from the United States Patent Office acknowledging receipt of the foregoing is attached as Exhibit C. Applicants submit that issuance of a corrected patent is appropriate in this instance and request that the Patent Office do so.

Alternatively, applicants request that the enclosed Certificate of Correction be issued. For the reasons discussed above, applicants submit that the mistake in issuing U.S. 6,710,264 B2 with informal drawings was that of the Patent Office and thus no fee is due.

Prompt and favorable consideration of this request is respectfully requested. If the Patent Office believes that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at (248) 641-1600.

Respectfully submitted,

Dated: JAN 12, 2005

By: Rolland A. Fuller III  
Roland A. Fuller III  
Reg. No. 31,160

HARNESS, DICKEY & PIERCE, P.L.C.  
P.O. Box 828  
Bloomfield Hills, Michigan 48303  
(248) 641-1600

21 JAN 2005



## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission	Patent Number	6,710,264 B2
	Issue Date	March 23, 2004
	First Named Inventor	Jeffrey L. Deeney et al.
	Art Unit	2827
	Examiner Name	Jeremy C. Norris
Attorney Docket Number		10015590-1

### ENCLOSURES (check all that apply)

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☐ Amendment / Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts/Incomplete Application
  - ☐ Response to Missing Parts under 37 CFR 1.52 or 1.53

- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
  - ☐ Petition to Convert to a Provisional Application
  - ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) \_\_\_\_\_

- ☐ After Allowance Communication to Technology Center (TC)
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
- ☐ Proprietary Information
- ☐ Status Letter

☒ Other Enclosure(s)  
(please identify below):

**Request For Issuance of  
Corrected Patent or,  
Alternatively Certificate of  
Correction (Patent Office's  
Mistake)**

#### Remarks

The Commissioner is hereby authorized to charge any additional fees that may be required under 37 CFR 1.16 or 1.17 to Deposit Account No. 08-2025. A duplicate copy of this sheet is enclosed.

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Harness, Dickey & Pierce, P.L.C.	Attorney Name	Roland A. Fuller III	Reg. No.	31,160
Signature					
Date	January 12, 2005				

### CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

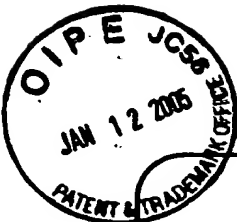
Typed or printed name	Andrea Blendea	Express Mail Label No.	EV 570 163 171 US (1/12/2005)
Signature		Date	January 12, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

EV 570 163 171 US

21 JAN 2005



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Patent Number	6,710,264 B2
	Issue Date	March 23, 2004
	First Named Inventor	Jeffrey L. Deeney et al.
	Art Unit	2827
	Examiner Name	Jeremy C. Norris
Total Number of Pages in This Submission	Attorney Docket Number	10015590-1

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form  <input type="checkbox"/> Fee Attached  <input type="checkbox"/> Amendment / Reply  <input type="checkbox"/> After Final  <input type="checkbox"/> Affidavits/declaration(s)  <input type="checkbox"/> Extension of Time Request  <input type="checkbox"/> Express Abandonment Request  <input type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s)  <input type="checkbox"/> Response to Missing Parts/ Incomplete Application  <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s)  <input type="checkbox"/> Licensing-related Papers  <input type="checkbox"/> Petition  <input type="checkbox"/> Petition to Convert to a Provisional Application  <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> Request for Refund  <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Technology Center (TC)  <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences  <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)  <input type="checkbox"/> Proprietary Information  <input type="checkbox"/> Status Letter  <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):  <b>Request For Issuance of Corrected Patent or, Alternatively Certificate of Correction (Patent Office's Mistake)</b>
<b>Remarks</b>		The Commissioner is hereby authorized to charge any additional fees that may be required under 37 CFR 1.16 or 1.17 to Deposit Account No. 08-2025. A duplicate copy of this sheet is enclosed.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm or Individual name	Harness, Dickey & Pierce, P.L.C.	Attorney Name Roland A. Fuller III	Reg. No. 31,160
Signature			
Date	January 12, 2005		

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Typed or printed name	Andrea Blendea	Express Mail Label No.	EV 570 163 171 US (1/12/2005)
Signature		Date	January 12, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.  
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

21 JAN 2005

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,710,264 B2

DATED : March 23, 2004

INVENTOR(S) : Deeney et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Replace informal drawings of Figures 1-8 with the attached formal drawings of Figures 1-8.

MAILING ADDRESS OF SENDER: Hewlett-Packard Company  
Legal Department  
3404 E. Harmony Road  
MS 79  
Fort Collins, CO 80528-9599

PATENT NO. 6,710,264 B2



No. of additional copies

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*

21 JAN 2005

Title: METHOD AND APPARATUS FOR SUPPORTING A CIRCUIT COMPONENT HAVING  
A SOLDER COLUMN INTERCONNECTS USING AN EXTERNAL SUPPORT

Inventor: Jeffrey L. Deeney  
HP PDNO: 10015590-1  
David M. Mason - (408) 447-4046



1/2

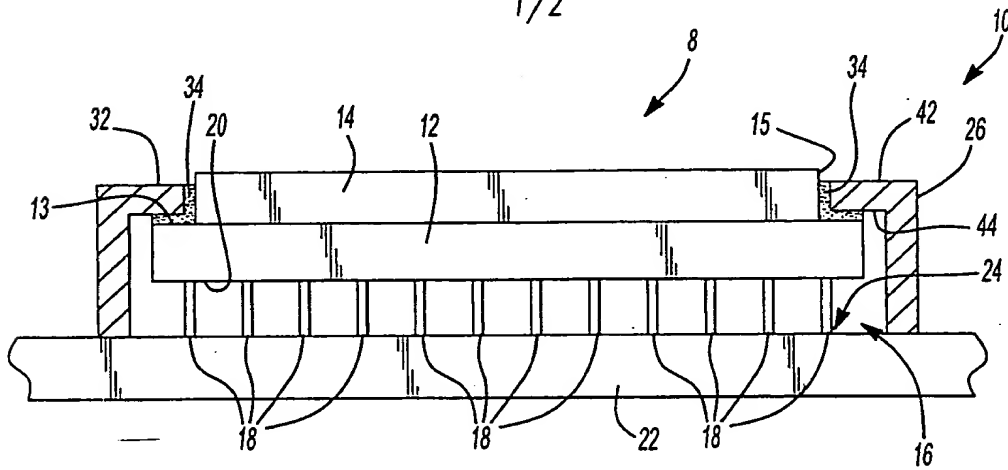


Figure-1

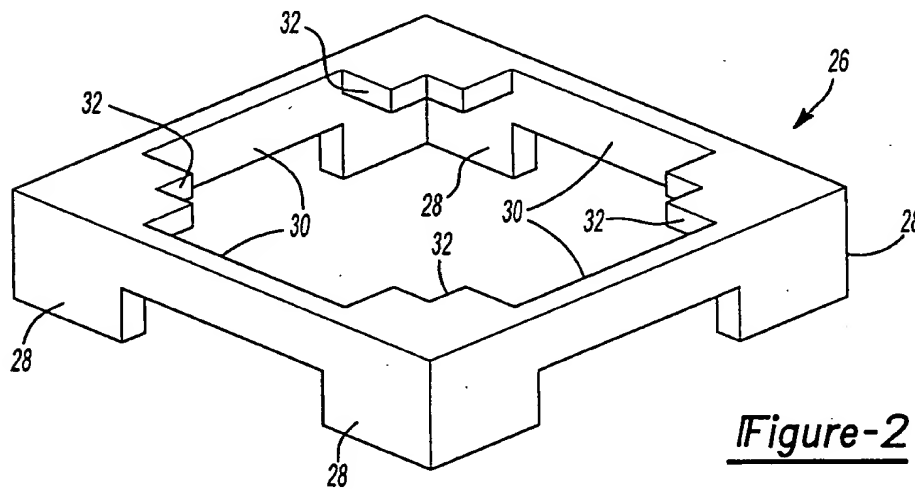


Figure-2

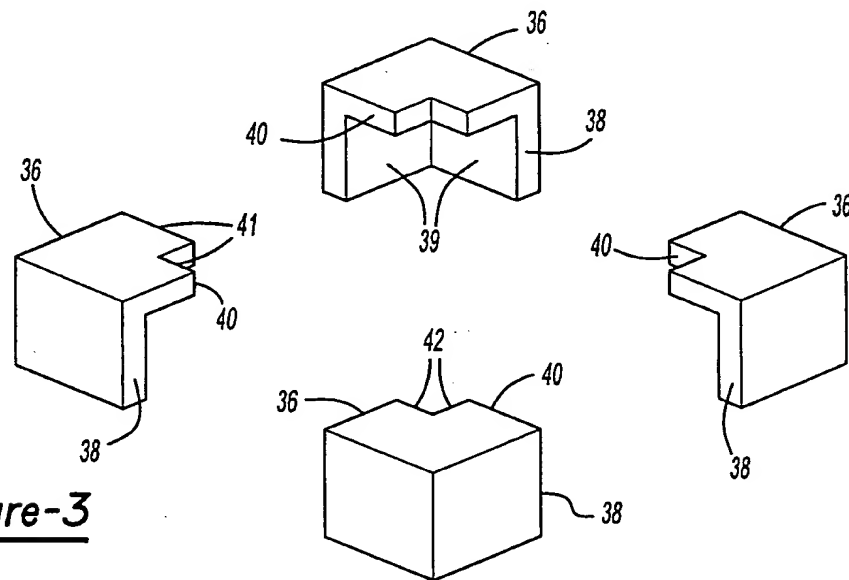


Figure-3

Title: METHOD AND APPARATUS FOR SUPPORTING A CIRCUIT COMPONENT HAVING  
A SOLDER COLUMN INTERCONNECTS USING AN EXTERNAL SUPPORT

Inventor: Jeffrey L. Deeney  
HP PDNO: 10015590-1  
David M. Mason - (408) 447-4046



2/2

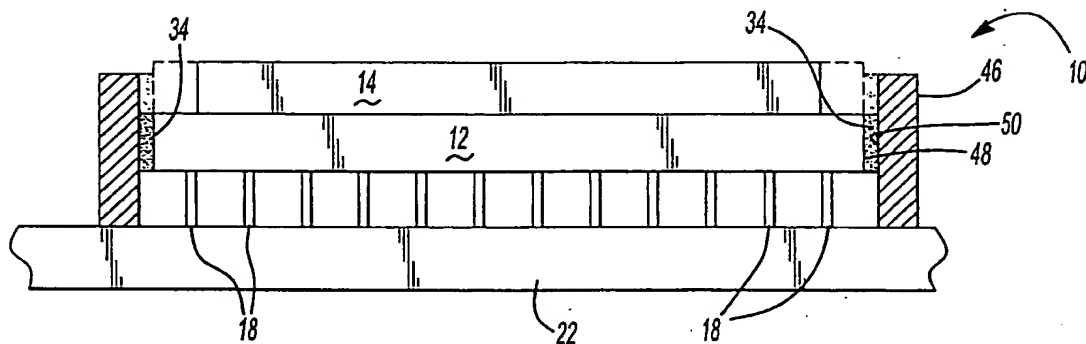


Figure-4

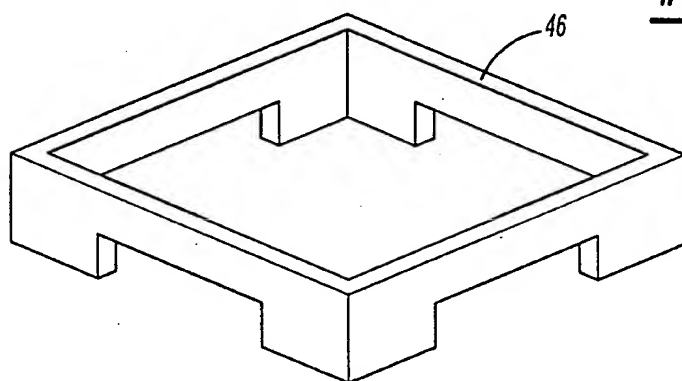


Figure-5

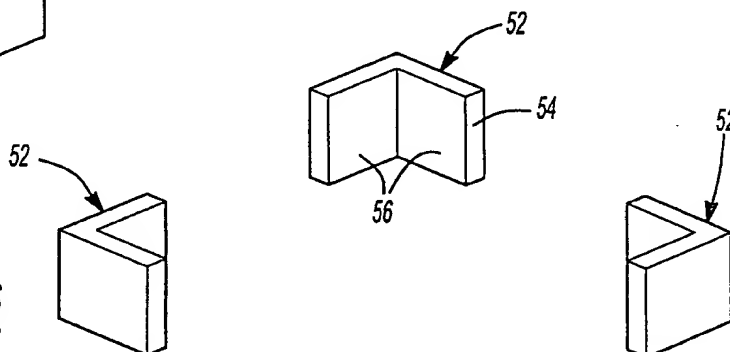


Figure-6

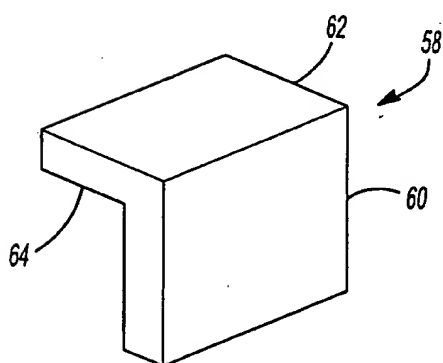


Figure-7

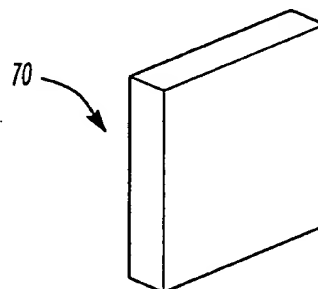


Figure-8

JAN 12 2005

IN THE U.S. PATENT AND TRADEMARK OFFICE  
Patent Application Transmittal Letter

COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

Sir:

EXHIBIT A

Transmitted herewith for filing under 37 CFR 1.53(b) is a(n): ☒ Utility ☐ Design

☒ original patent application,  
☐ continuation-in-part application

INVENTOR(S): Jeffrey L. Deeney et al

TITLE: METHOD AND APPARATUS FOR SUPPORTING A CIRCUIT COMPONENT HAVING A SOLDER COLUMN INTERCONNECTS USING AN EXTERNAL SUPPORT

Enclosed are:

- ☒ The Declaration and Power of Attorney. ☒ signed ☐ unsigned or partially signed  
☒ 2 sheets of drawings (one set) ☐ Associate Power of Attorney  
☐ Form PTO-1449 ☒ Information Disclosure Statement and Form PTO-1449  
☐ Priority document(s) ☒ (Other) Return postcard, Att. Xmt Form (fee \$ )

CLAIMS AS FILED BY OTHER THAN A SMALL ENTITY				
(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) TOTALS
TOTAL CLAIMS	21 — 20	1	X \$18	\$ 18
INDEPENDENT CLAIMS	3 — 3	0	X \$84	\$ 0
ANY MULTIPLE DEPENDENT CLAIMS	0		\$280	\$ 0
BASIC FEE: Design ( \$330.00 ); Utility ( \$740.00 )				\$ 740
TOTAL FILING FEE				\$ 758
OTHER FEES				\$
TOTAL CHARGES TO DEPOSIT ACCOUNT				\$ 758

Charge \$ 758 to Deposit Account 08-2025. At any time during the pendency of this application, please charge any fees required or credit any over payment to Deposit Account 08-2025 pursuant to 37 CFR 1.25. Additionally please charge any fees to Deposit Account 08-2025 under 37 CFR 1.16 through 1.21 inclusive, and any other sections in Title 37 of the Code of Federal Regulations that may regulate fees. A duplicate copy of this sheet is enclosed.

"Express Mail" label no. EL623595729US

Date of Deposit Nov. 16, 2001

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Washington, D.C. 20231.

By Jennifer Yapo  
Typed Name: Jennifer Yapo

Respectfully submitted,

Jeffrey L. Deeney et al

By Roland A. Fuller III  
Attorney/Agent for Applicant(s)

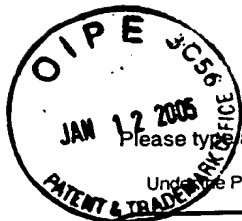
Reg. No. 31,160

Date: Nov. 16, 2001

Telephone No.: (248) 641-1600

EL623595729US





## EXHIBIT B

PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>	<b>Application Number</b>	
	<b>Filing Date</b>	
	<b>First Named Inventor</b>	Jeffrey L. Deeney et al
	<b>Group Art Unit</b>	
	<b>Examiner Name</b>	
<b>Total Number of Pages in This Submission</b>		<b>Attorney Docket Number</b> 10015590-1

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form  <input type="checkbox"/> Fee Attached  <input type="checkbox"/> Amendment / Response  <input type="checkbox"/> After Final  <input type="checkbox"/> Affidavits/declaration(s)  <input type="checkbox"/> Extension of Time Request  <input type="checkbox"/> Express Abandonment Request  <input type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s)  <input type="checkbox"/> Response to Missing Parts/ Incomplete Application  <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application)  <input type="checkbox"/> Drawing(s)  <input type="checkbox"/> Licensing-related Papers  <input type="checkbox"/> Petition  <input type="checkbox"/> Petition to Convert to a Provisional Application  <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> Request for Refund  <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group  <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences  <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)  <input type="checkbox"/> Proprietary Information  <input type="checkbox"/> Status Letter  <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):  2 sheets of Formal Drawings showing Figures 1-8 (completed after the execution of the Declaration and Power of Attorney)
<b>Remarks</b>		Submitted with application titled Method And Apparatus For Supporting A Circuit Component Having A Solder Column Interconnects Using An External Support by Deeney et al, Attorney Docket No. 10015590-1, Express Mail Label No. 623595729US.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
<b>Firm or Individual name</b>	Roland A. Fuller III
<b>Signature</b>	
<b>Date</b>	November 16, 2001

CERTIFICATE OF MAILING			
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date: <span style="border: 1px solid black; display: inline-block; width: 150px; height: 1.2em; vertical-align: middle;"></span>			
<b>Typed or printed name</b>			
<b>Signature</b>		<b>Date</b>	

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be send to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

21 JAN 2005

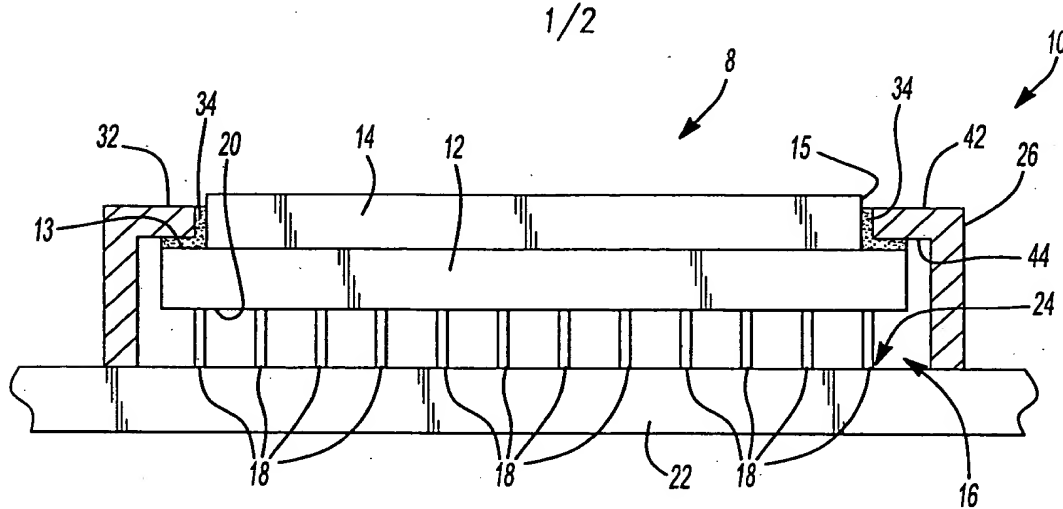


Figure-1

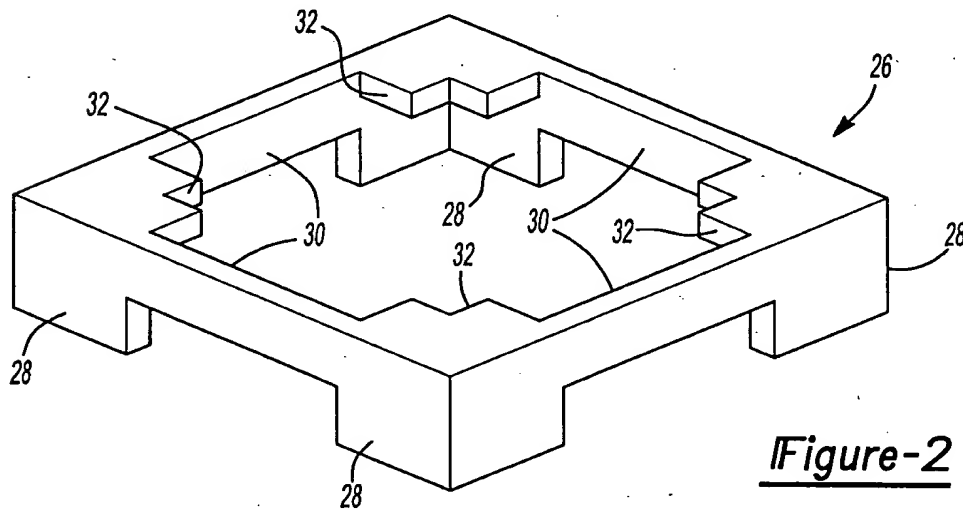


Figure-2

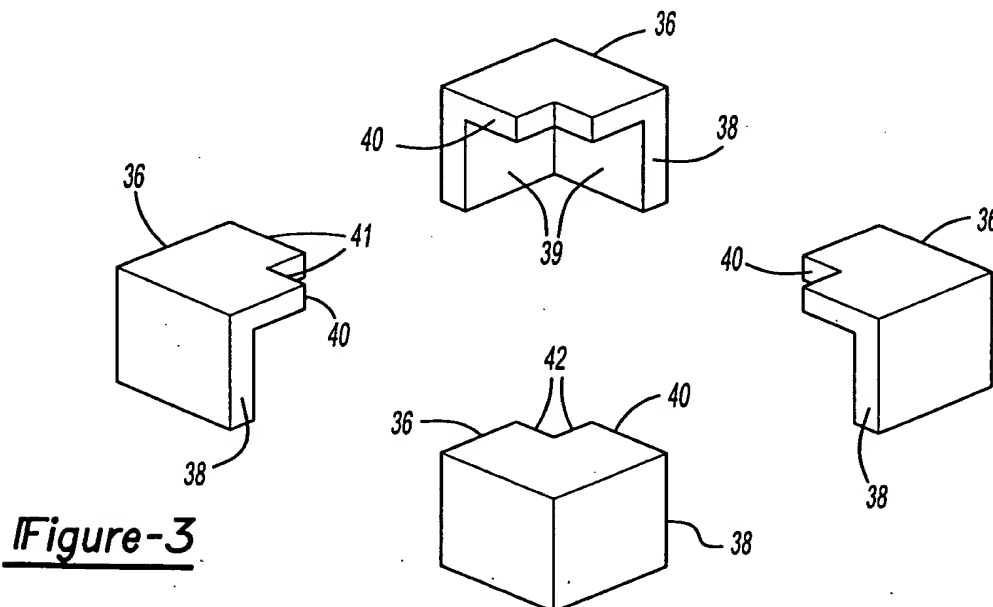


Figure-3



2/2

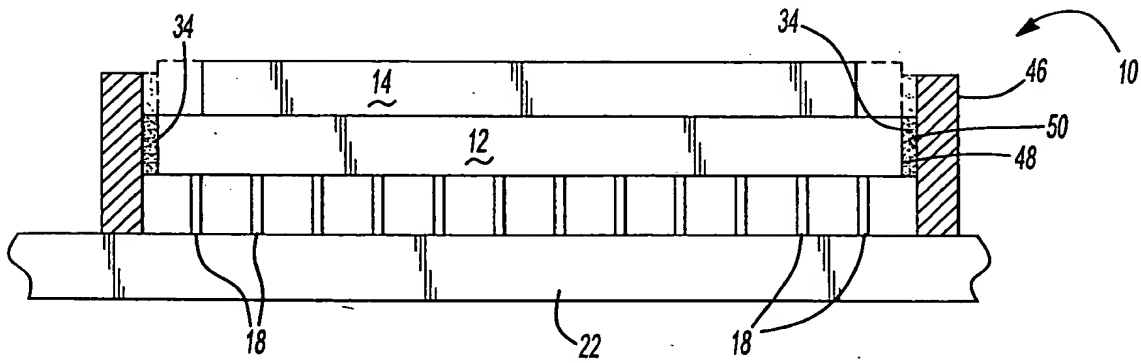


Figure-4

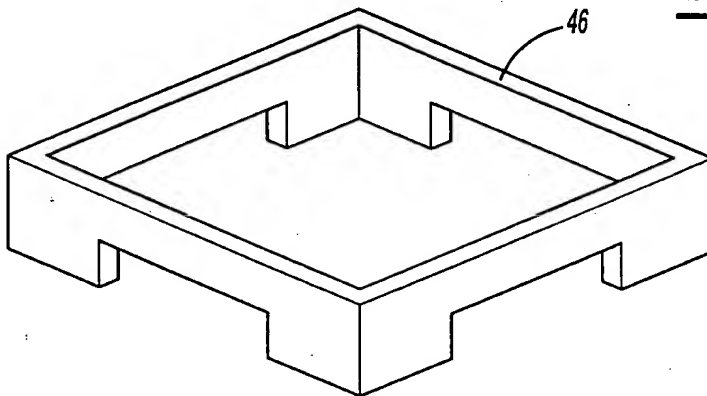


Figure-5

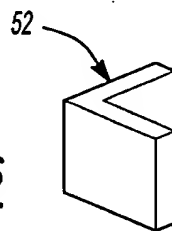


Figure-6

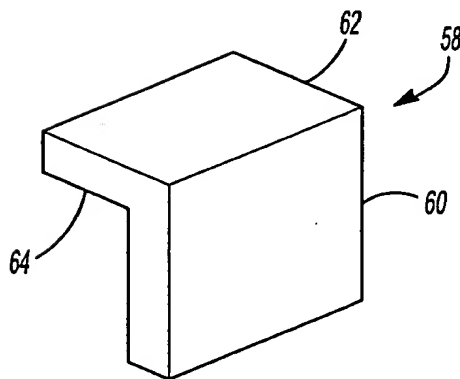
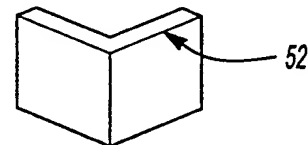
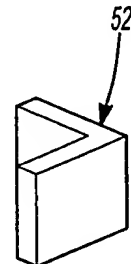
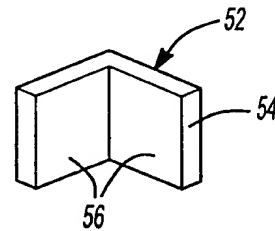


Figure-7

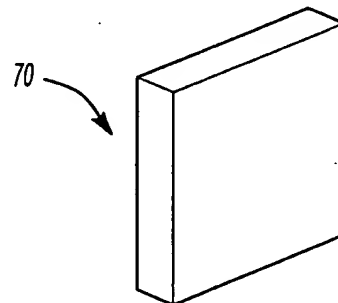



Figure-8



# EXHIBIT C

Applicant:	Jeffrey L. Deeney et al	Case No.:	10015590-1
Serial No.:		Filing Date:	
Title: METHOD AND APPARATUS FOR SUPPORTING A CIRCUIT COMPONENT HAVING A SOLDER COLUMN INTERCONNECTS USING AN EXTERNAL SUPPORT			
Please acknowledge receipt of: Transmittal (in duplicate); 15 page Patent Application; 2 sheets of a Informal Drawings (showing Figures 1-8); executed Declaration and Power of Attorney; Information Disclosure Statement; Form PTO-1449 and copies of the references cited therein (10 US and 5 Other); Transmittal Form for Formal Drawings and 2 sheets of Formal Drawings (showing Figures 1-8); and 2 return postcards.			
By stamping and returning to Harness, Dickey & Pierce, P.L.C.		USPTO Date Stamp	
Due:	Attorney:	RAF	(6215-000008)